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10/510,907	05/16/2005	Thomas Hogberg	62276(45579)	7331	
21874 7590 027/4/2008 EDWARDS ANGELL PALMER & DODGE LLP P.O. BOX 55874			EXAM	EXAMINER	
			LOEWE, SUN JAE Y		
BOSTON, MA 02205			ART UNIT	PAPER NUMBER	
			1626		
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

# Application No. Applicant(s) 10/510.907 HOGBERG ET AL. Office Action Summary Examiner Art Unit SUN JAE Y. LOEWE 1626 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 21 December 2007. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-19 and 45-54 is/are pending in the application. 4a) Of the above claim(s) 2.3.9 and 10 is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1,4-8,11-19 and 45-54 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date \_\_\_\_\_\_.

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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#### DETAILED ACTION

 Claims 1-19 and 45-54 are pending in the instant application. Claims 20-35 and 55 were cancelled by preliminary amendment filed on October 8, 2004. Claims 36-44 were cancelled by amendment filed on December 12, 2007.

#### Election/Restrictions

The scope of the examined subject matter is: compounds of Formula I which meet the structural limitations defined by

Note: This scope was set forth in the previous office action (see page 6). However, due to a typographical error, two of the nodes associated with variable Q were transcribed incorrectly. It is herein clarified that the correct scope of examination is given by the generic formula above.

3. Sections 2 and 10 of the office action dated June 12, 2007 set forth different scopes of examination. The correct scope is that denoted on section 10 of the office action dated June 12, 2007 (with the correction discussed above). The scope set forth in Section 2 of the office action dated June 12, 2007 was in error. This clarification/correction does not affect the grounds of rejection previously made. However, claims which are drawn to non-elected, non-examined subject matter were inadvertently not withdrawn. These claims are withdrawn herein (see below, Section 4).

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4. Compounds of Formula I which are outside of the scope denoted by the generic structure above are withdrawn from further consideration. Claims 2, 3, 9 and 10, being drawn to these non-elected compounds, are withdrawn from further consideration pursuant to 37 CFR 1.142(b).

## Response to Amendment

5. Applicant's amendment to the claims has been fully considered. The following grounds of objection/rejection (office action dated June 12, 2007) are <u>withdrawn</u> as a result of the amendment: section 6 (objection to specification), section 8 (claim objection), section 9 (claim objection), sections 11 - 13 (35 USC 112 2<sup>nd</sup> rejections).

#### Response to Arguments

- 6. Applicant's arguments have been fully considered, however, they are not persuasive in overcoming 35 USC 112 1<sup>st</sup> paragraph rejections (sections 10 and 12). Therefore, the rejections are maintained and hereby made FINAL. See response to arguments below:
  - a) "The scope of the claims with respect to R<sup>3</sup> and R<sup>4</sup> is congruent with the scope of the disclosure for the species disclosed in the specification."
    - "The inventors also demonstrated 187 examples."
    - "An actual reduction to practice

is not necessary as long as the written description enables one of ordinary skill in the art to make and use the invention without undue experimentation.

A prima facie case of lack of written description was made based on the insufficiency of the disclosure of actual species to support the claimed genus. The actual species described represent compounds wherein R3 and R4 join together to form piperidine, piperazine, pyrrolidine or morpholine. The genus encompasses compounds wherein R3 and R4 join together to form "a heterocyclic ring further comprising oxygen or nitrogen atoms." Based on the definition of heterocycle provided by the specification (pg. 3), the claims encompass compounds wherein R3 and R4 join to form, for example: tetrahydrofuran, furan, tetrahydrothiphene, thiophene, pyrroline, pyrrole, dioxolane, pyrazolidine, imidazolidine, pyrazole, diazole, triazole, isoxazole, oxazole, thiazole, isothiazole, azepine, oxepin, thiepin, benzofuran, indole, indazole, quinoline, etc. The genus of compounds claimed are structurally diverse; one of ordinary skill could not predict the results

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(ie. inhibition of MCH receptor) obtained from these species. The evidence presented in the previous office action (pg. 7 and 9) indicates that one of ordinary skill could not predict the operability in the invention of any species other than those disclosed. Applicant's attentions is respectfully directed to MPEP 2163.II.A.3.(a),(ii). These guidelines were applied in the determination of prima facie lack of written description.

### b) "One of skill in the art

would be able to easily and without under experimentation utilize the disclosure and examples to assess the activity of further compounds that fall in the same genus as those disclosed."

The specification teaches how to use compounds wherein R3 and R4 join to form piperidine, piperazine, pyrrolidine or morpholine. The specification does not teach how to use compounds wherein R3 and R4 join to form any other ring system encompassed by the definition of "a <a href="https://linearistates.org/https://linearistates.o

- "The specification discloses "[t]he invention also related to solvates, and prodrugs of the compounds of the invention"
  - "The specification discloses that "It like invention
  - encompasses a compound in amorphous, any polymorphous or any crystalline form."
  - "One of skill in the art at the time the invention would be familiar with how to make
  - and use crystaltine/amorohous/solvated forms of compounds. "
  - "One of skill in the art would, based on the extensive disclosure of this application ...
    be capable of making and using crystalline/amorphous/solvated forms

without undue experimentation."

There is no specific teaching on how to make/use solid forms (including solvates) or prodrugs. The teaching is generic, and limited to what Applicant has quoted in the remarks: ie. see excerpts above. Based on similar reasoning as presented above, it is maintained that the claims prima facie lack written description and enablement. As previously discussed (see pg. 9-10 of office action dated June 12, 2007), this determination is based on the low level of predictability and the lack of a specific teaching (eg. reduction to practice) for the claimed invention.

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Applicant has not specifically traversed the 35 USC 112 2<sup>nd</sup> paragraph rejection set forth
in section 14 of the office action dated June 12, 2007. This ground of rejection is maintained and
hereby made FINAL.

### Claim Objections

- 8. Claims 1, 4-8, 11-19 and 45-54 objected to for containing non-elected subject matter.
- 9. Claim 53 objected to because of the following informality. Based on the dependency to claim 46, the claim is interpreted to comprise a compound according to claim 1. The reference to plural claims, ie "according to claims", is confusing. Appropriate correction is requested.

### Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

10. Claim 1 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claim has been amended to recite the structural limitation:

"partially or fully fluorinated alknoy or partially or fully fluorinated throughout groups." This limitation does not appear to be supported by the originally filed specification.

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### Allowable Subject Matter

The subject matter denoted by the subgenus of 2 appears to be allowable over the prior

#### Conclusion

No claims allowed.

 Any inquiry concerning this communication or earlier communications from the
 examiner should be directed to SUN JAE Y. LOEWE whose telephone number is (571)272-9074. The examiner can normally be reached on M-F 7:30-5:00 Est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph McKane can be reached on (571)272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.